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RHTG # 37,294

BOX # 1045 # 124

25 November 1946.

WJW/e

Subject: Use of Depleted Materials as Feed. (U)

MEMORANDUM to The District Engineer, Manhattan District, P. O. Box 2610,  
Washington, D. C.

1. At the present time K-25 is being fed Normal Material at a rate of 1300 Kg T/day with an expected production of 2.55 Kg X/day at concentration 412500 and a tails concentration of 33052.0.

2. On 21 October 1946 the following material was on hand as wastes:

<u>Material</u>	<u>KgT</u>	<u>Average Concentration</u>
S-50 Waste	76,850	33067.2
K-25 Waste	143,580	33055.1
K-27 Waste	586,220	33048.8

3. With present facilities it is possible to feed 3600 Kg T/day. It is believed that the most economical feed rate for depleted materials is the maximum. From the wastes listed above it would be possible to operate K-25 -27 for a period of three years with production decreasing from 2.97 Kg X/day for the first 30 days to 1.18 Kg X/day for the last 215 days. It is estimated that a total of 2021.5 Kg X/day could be recovered in 3 years. The waste remaining would have a concentration of 23024.0.

4. Attached is a tabulation showing one scheme of feeding wastes until production decreases to 1.90 Kg X/day and tails concentration decreases to 23037.1. The assumed cost of operation is \$5,500,000.00 per month.

5. All production shown on attached tabulation is at maximum concentration of 412500. It should be understood that these are calculated performances.

1 Incl.:  
Tabulation (in dup.)

WALTER J. WILLIAMS  
Director of Operations.

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By Authority of PGD-7  
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T. F. Davis, Analysas Corp. 17-20-90  
RB Martin 1-10-90 Date

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RECYCLE # 3729  
SOURCE 1045

SCHEM OF FEEDING WASTES (u)

	Kg T AVAILABLE	AVE. CONC.	FEED RATE Kg T/day	No. Days of OPERATION	PRODUCTION COST Kg X/day	Gm X
1. 5350 Waste	76,850	33067.2	2500	30.7	2.97	39.35
2. L-25 Waste Plus Waste from Recycle 1.	200,840	33055.0	3600	55.8	2.49	46.85
3. K-27 Waste Plus Waste from Recycle 2.	775,920	33048.7	3600	215.9	2.19	53.40
4. Waste from Recycle 3.	775,415	33042.6	3600	215.5	1.90	61.50

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By Authority of PGP-7  
Classification Authority  
T. F. Davis, Analyses Corp. 12-20-90 Date  
PA B Martin 1-10-91